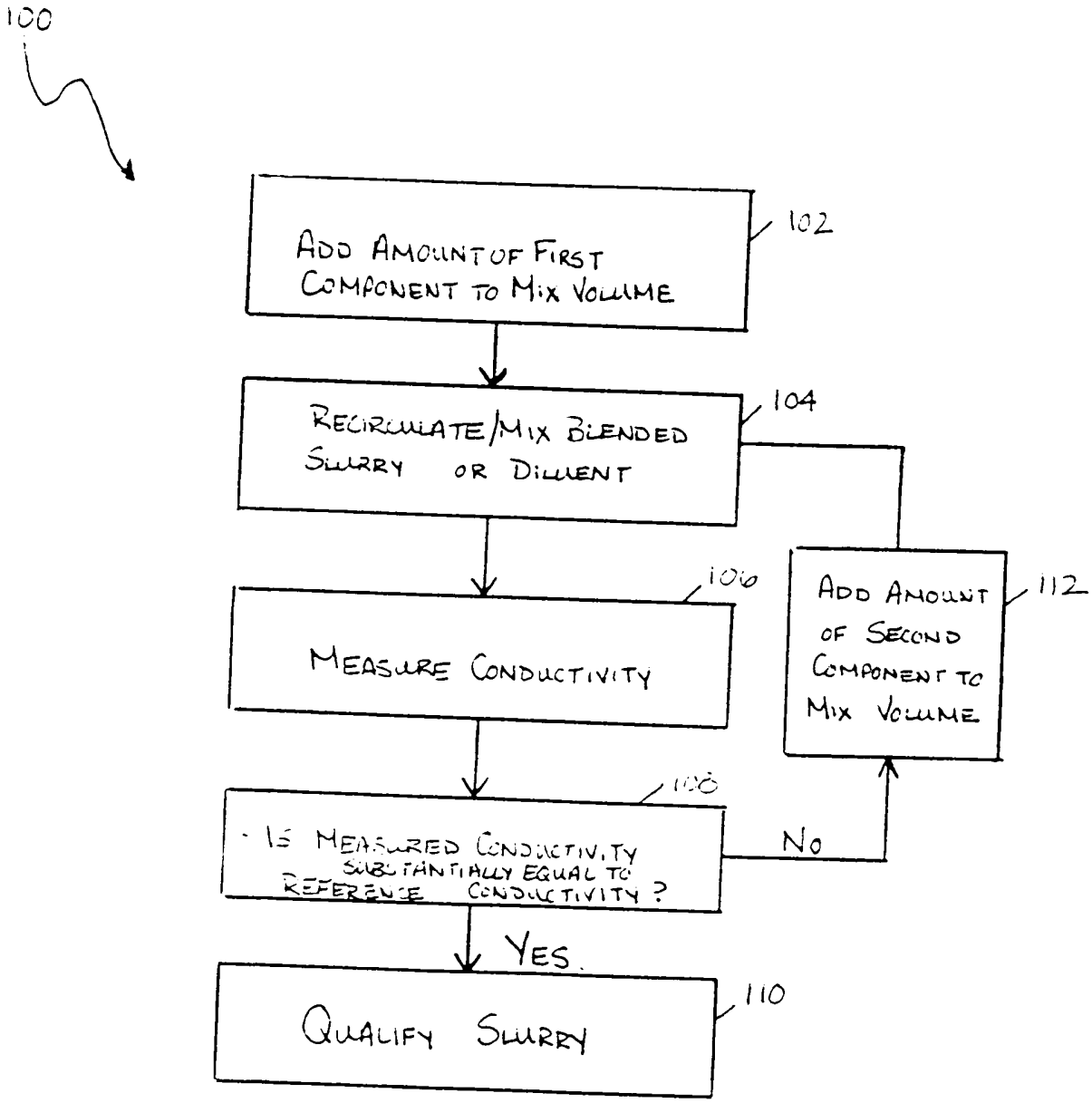

100
ADD AMOUNT OF FIRST COMPONENT TO MIX VOLUME
102
RECIRCULATE/MIX BLENDED SLURRY OR DILUENT
104
MEASURE CONDUCTIVITY
106
IS MEASURED CONDUCTIVITY SUBSTANTIALLY EQUAL TO REFERENCE CONDUCTIVITY ?
108
NO
ADD AMOUNT OF SECOND COMPONENT TO MIX VOLUME
112
YES
QUALIFY SLURRY
110

FIGURE 1

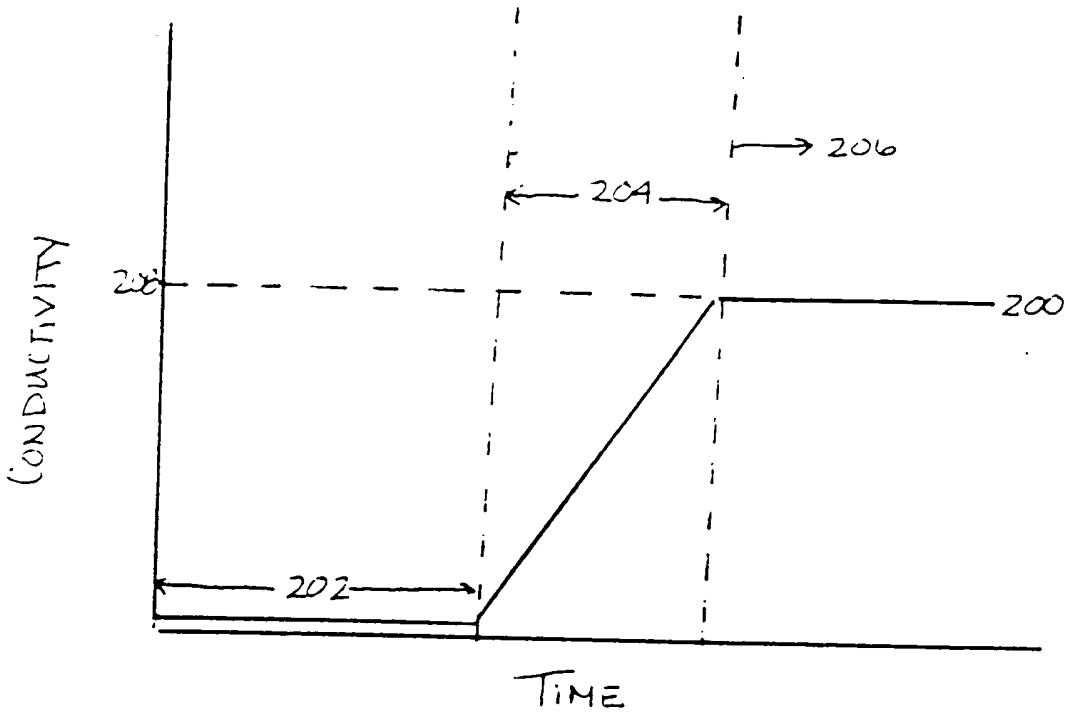
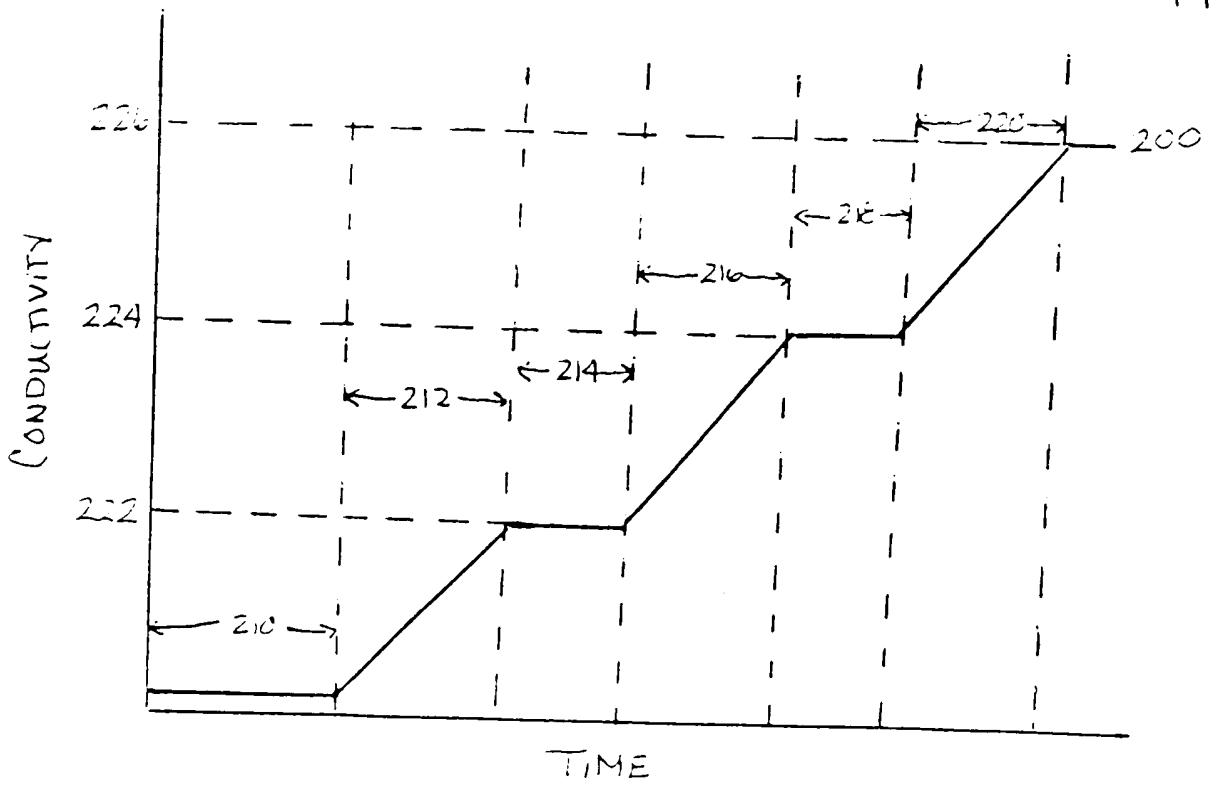


FIGURE 2A

FIGURE 2B



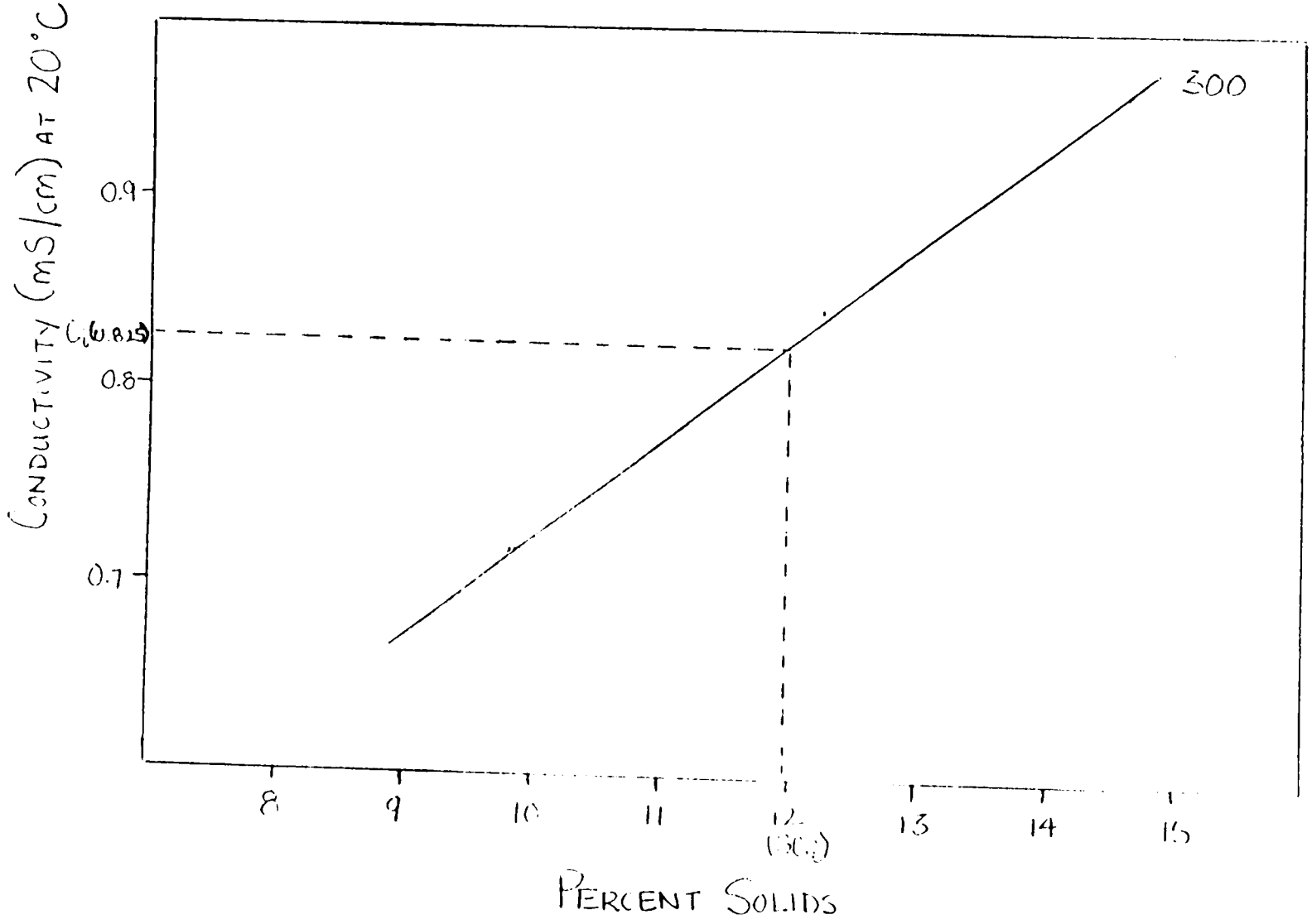

CONDUCTIVITY (mS/cm) AT 20°C
0.9
0.8
0.7
300
8
9
10
11
13
14
15
PERCENT SOLIDS

FIGURE 3

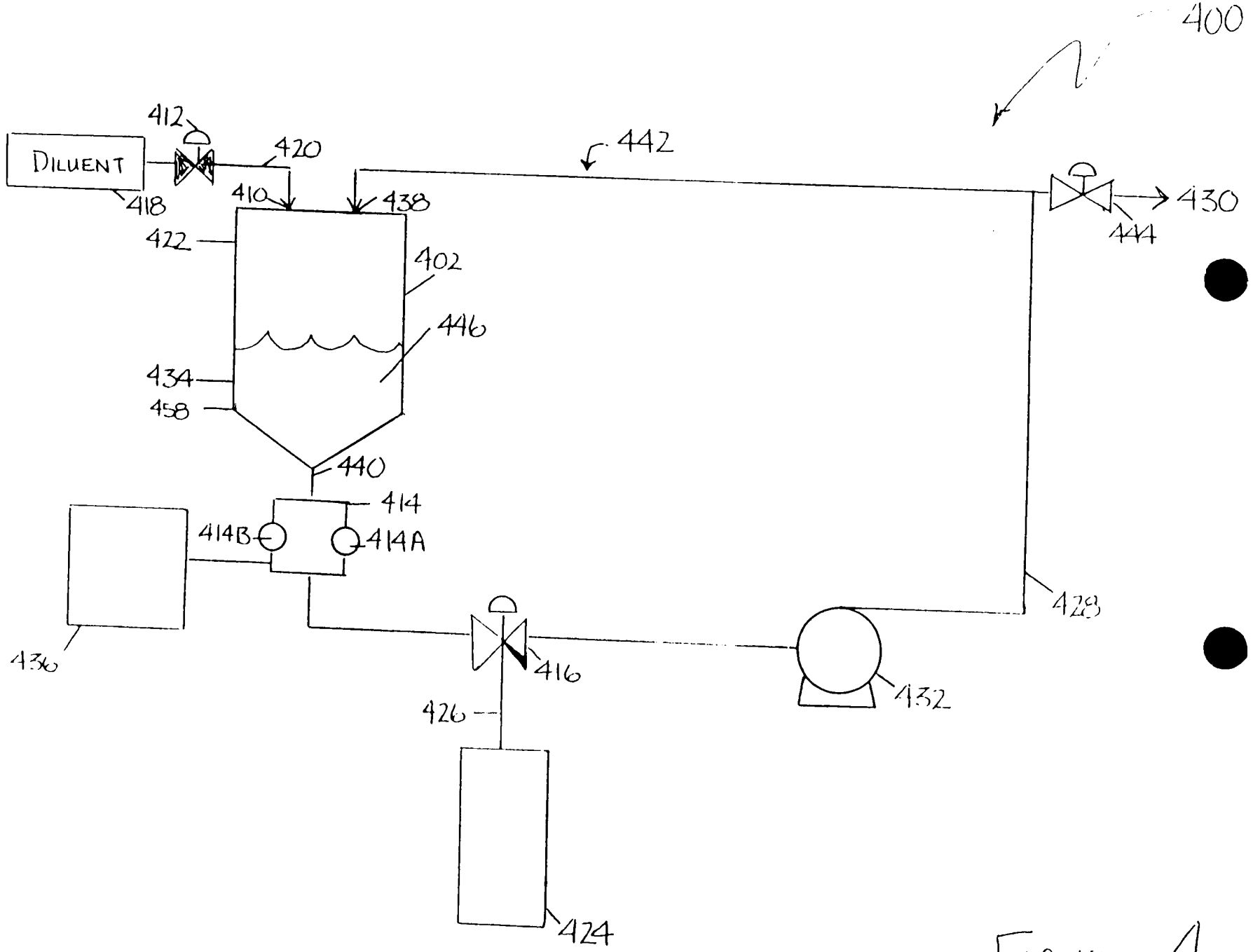

400
412
DILUENT
420
442
418
410
438
430
444
422
402
446
434
458
440
414
414B
414A
436
416
428
432
426
424

FIGURE 4

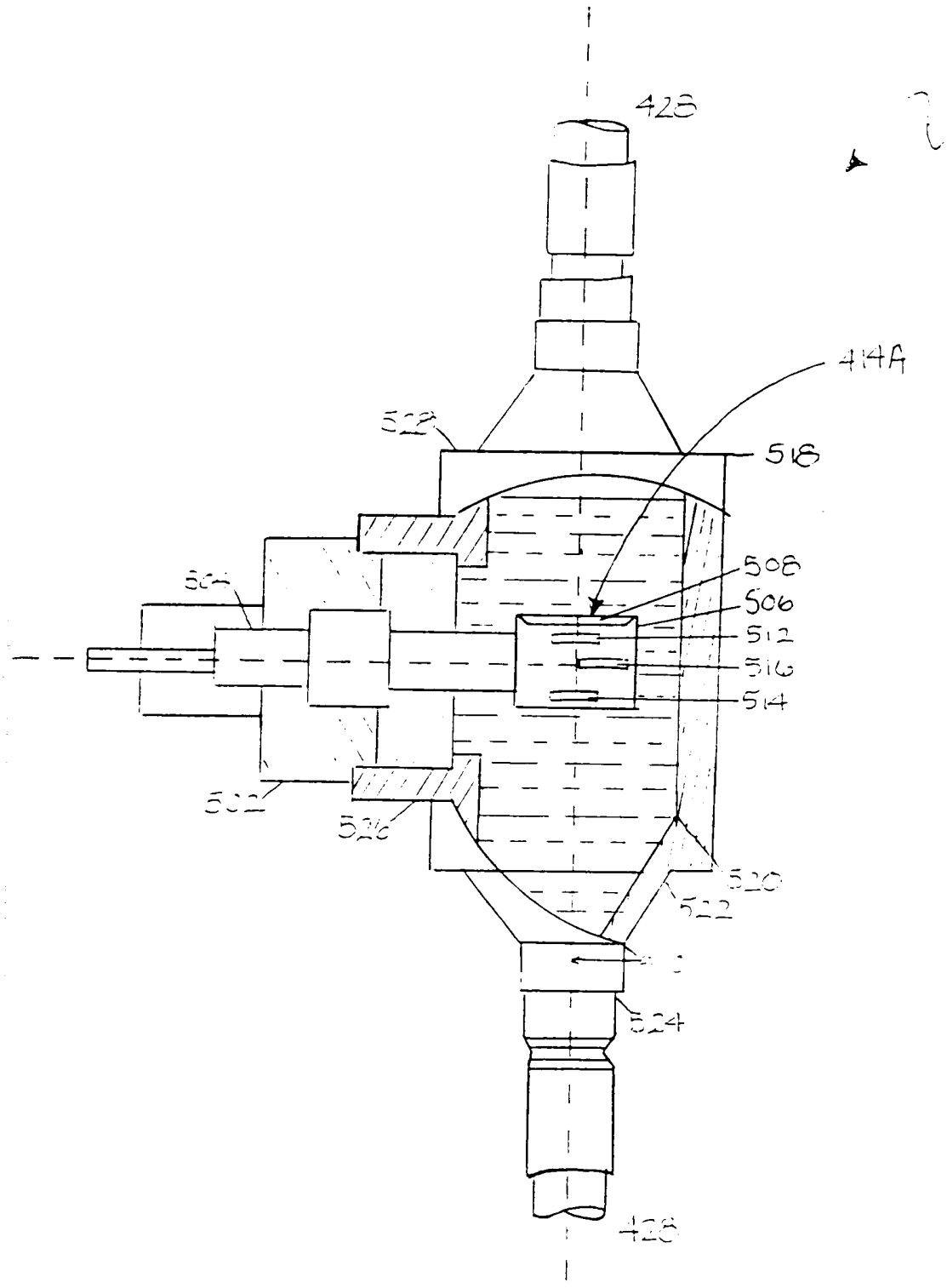


FIGURE 5

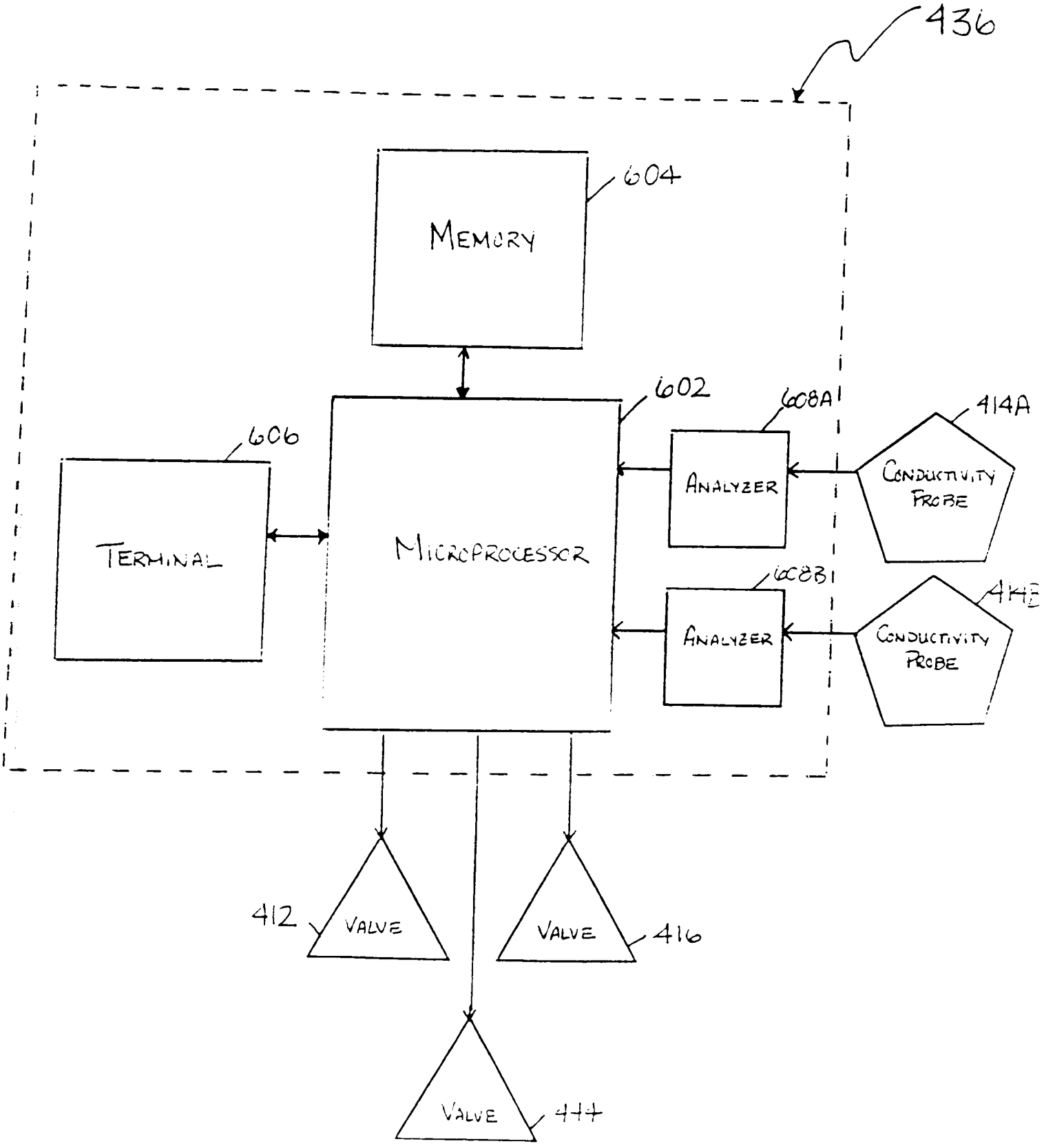

436
604
MEMORY
602
608A
414A
606
ANALYZER
CONDUCTIVITY PROBE
TERMINAL
MICROPROCESSOR
608B
414B
ANALYZER
CONDUCTIVITY PROBE
412
VALVE
VALVE
416
VALVE
417

FIGURE 6

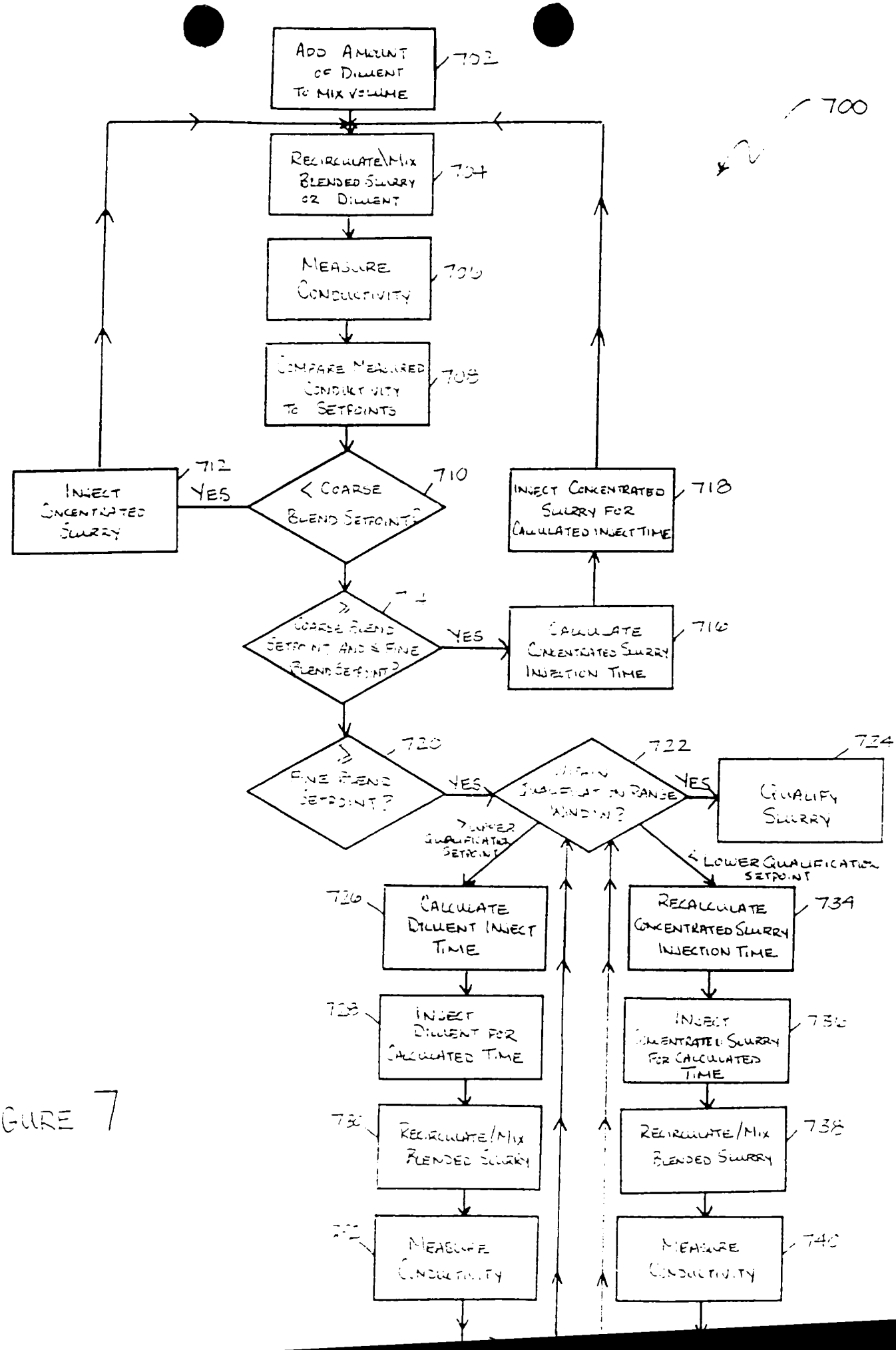

ADD AMOUNT OF DILUENT TO MIX VOLUME
702
700
RECIRCULATE/MIX BLENDED SLURRY OR DILUENT
704
MEASURE CONDUCTIVITY
706
COMPARE MEASURED CONDUCTIVITY TO SETPOINTS
708
< COARSE BLEND SETPOINT?
710
YES
712
INJECT CONCENTRATED SLURRY
INJECT CONCENTRATED SLURRY FOR CALCULATED INJECT TIME
718
≥ COARSE BLEND SETPOINT AND < FINE BLEND SETPOINT?
714
YES
CALCULATE CONCENTRATED SLURRY INJECTION TIME
716
≥ FINE BLEND SETPOINT?
720
YES
WITHIN QUALIFICATION RANGE WINDOW?
722
YES
QUALIFY SLURRY
724
> UPPER QUALIFICATION SETPOINT
< LOWER QUALIFICATION SETPOINT
CALCULATE DILUENT INJECT TIME
726
RECALCULATE CONCENTRATED SLURRY INJECTION TIME
734
INJECT DILUENT FOR CALCULATED TIME
728
INJECT CONCENTRATED SLURRY FOR CALCULATED TIME
736
RECIRCULATE/MIX BLENDED SLURRY
730
RECIRCULATE/MIX BLENDED SLURRY
738
MEASURE CONDUCTIVITY
732
MEASURE CONDUCTIVITY
740

FIGURE 7

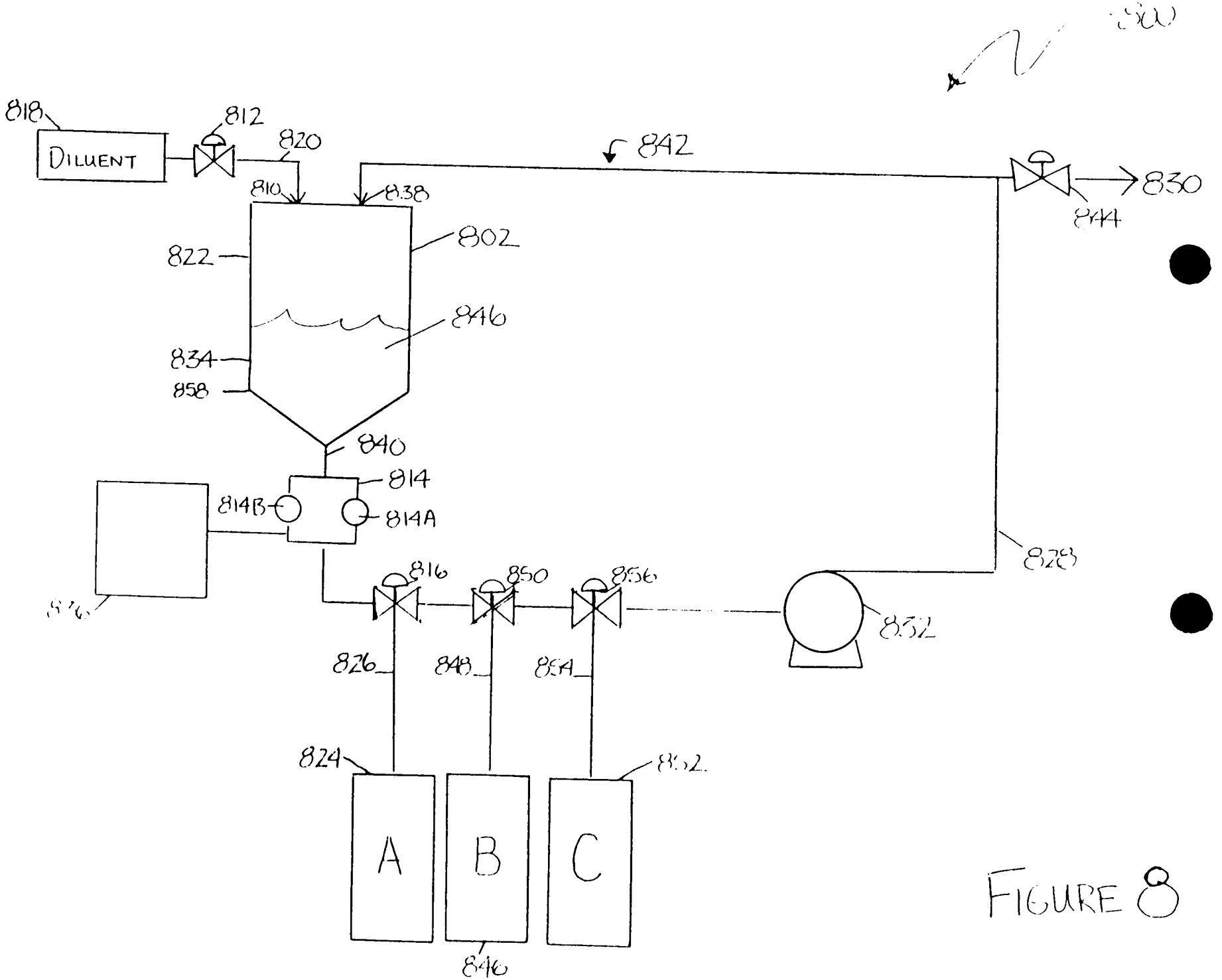

800
818
DILUENT
812
820
842
830
844
810
838
802
822
846
834
858
840
814
814B
814A
816
850
856
828
832
826
848
854
824
852
A
B
C
846

FIGURE 8

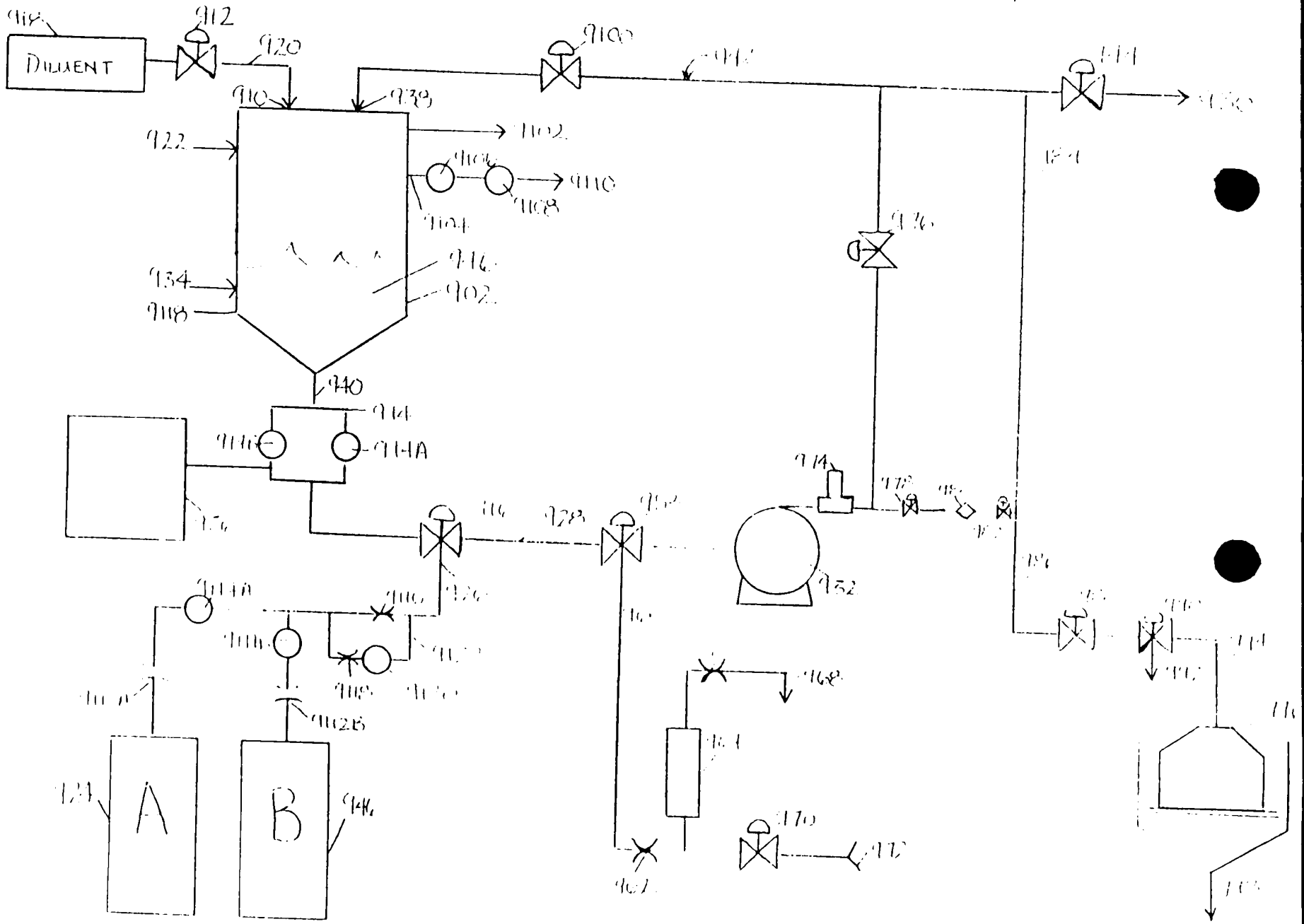



FIGURE 9